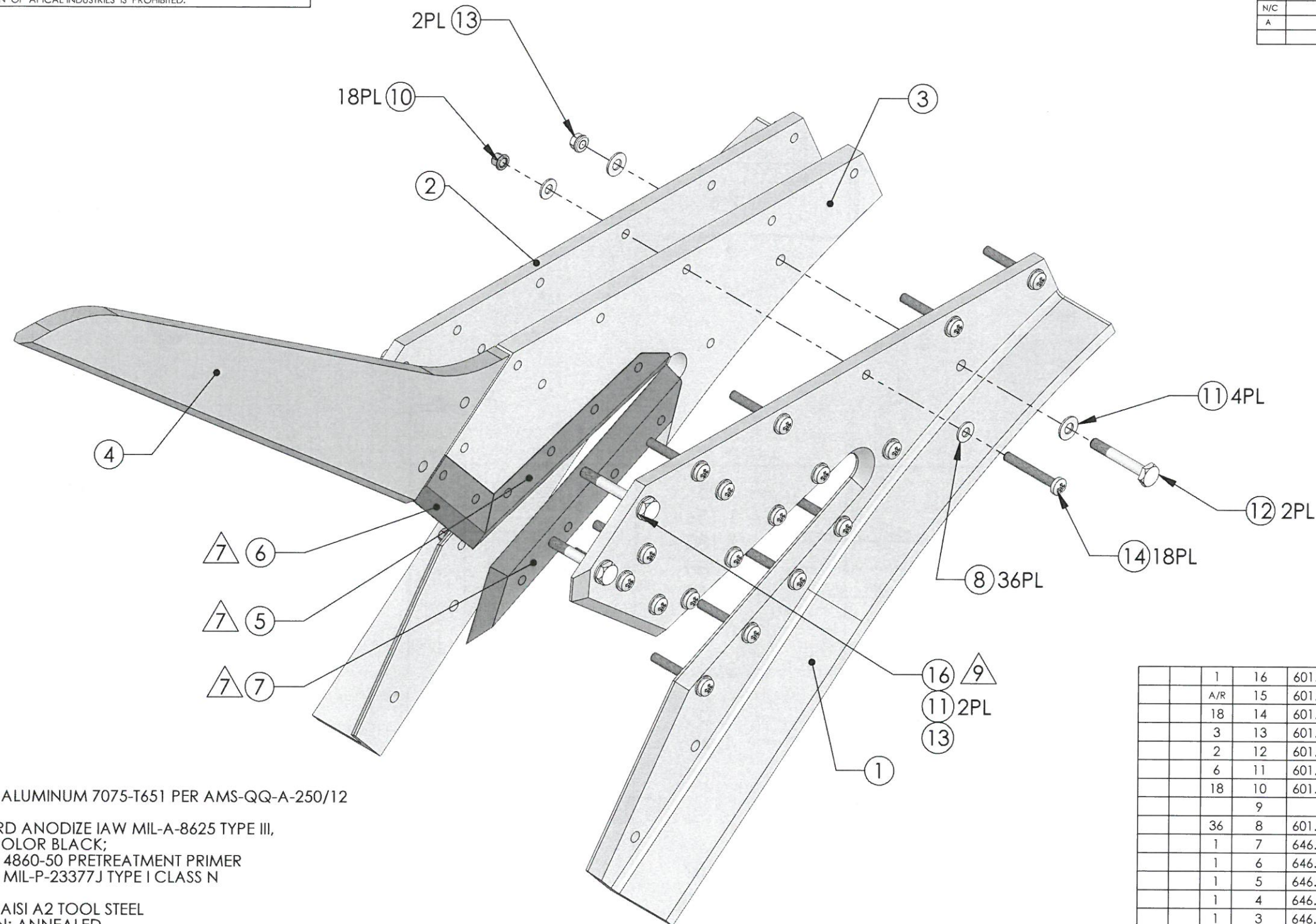


1 2 3 4 5 6 7 8

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
N/C	INITIAL RELEASE	08/26/08	P. BRAVO
A	INCORPORATED ECINS 02196, 03724, 04765, & 05708	02/21/17	P. BRAVO



NOTES:

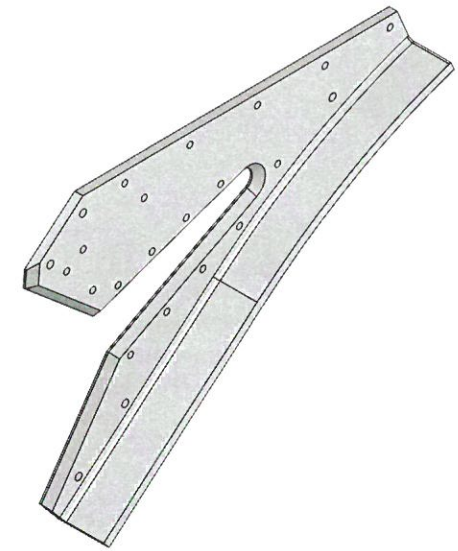
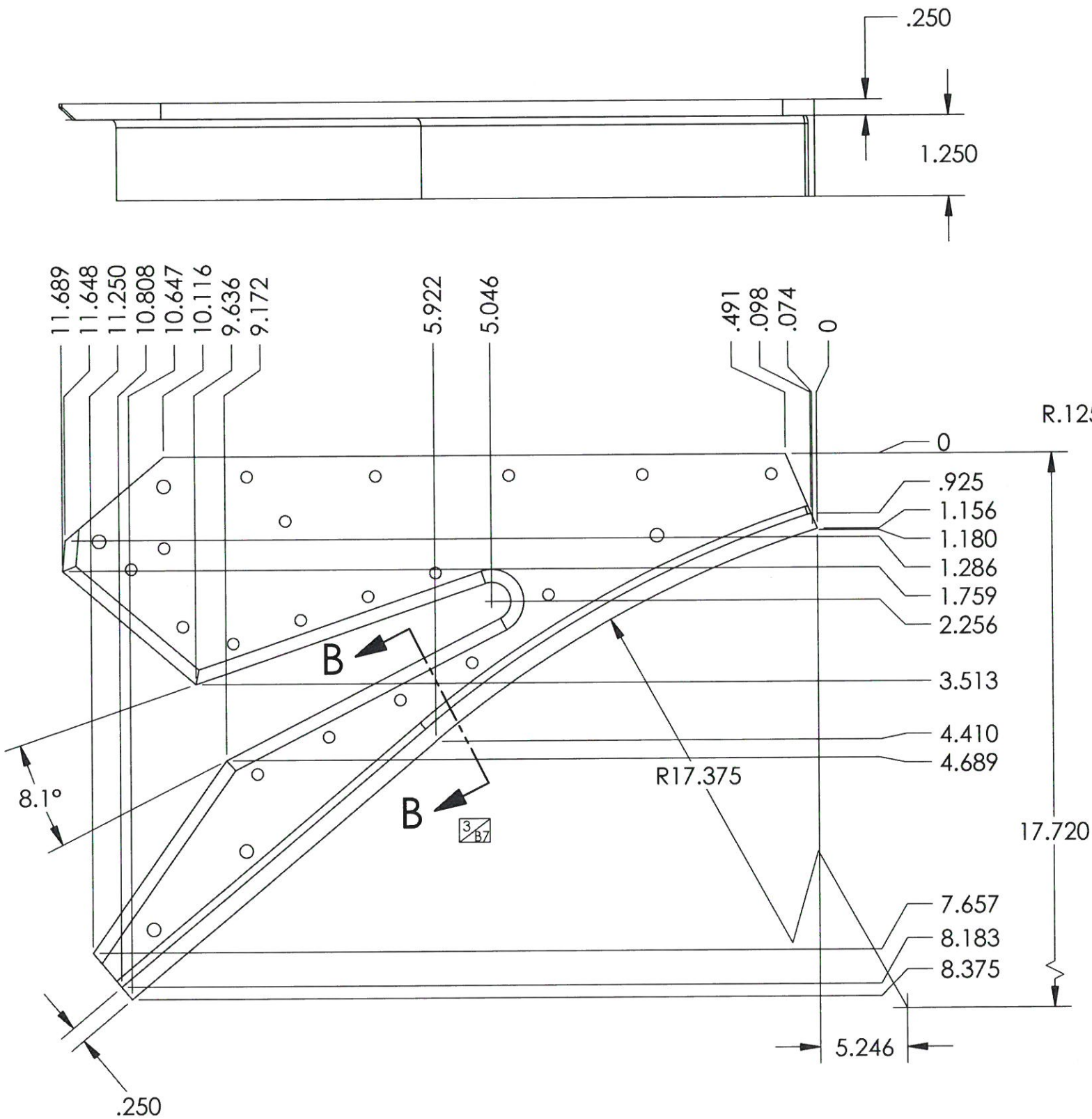
- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12
- 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK; CARDINAL 4860-50 PRETREATMENT PRIMER PRIME IAW MIL-P-23377J TYPE I CLASS N
- 3 MATERIAL: AISI A2 TOOL STEEL
CONDITION: ANNEALED
POST PROCESS: HEAT TREAT TO 58-62 Rc ROCKWELL HARDNESS
- 4 FINISH: PRIME IAW MIL-P-23377J TYPE I CLASS N
5. DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED
6. IDENTIFY IAW MPP-120
- 7 APPLY F/N 15 AS REQUIRED TO ALL FAYING SURFACES OF F/N 5, 6 & 7 UPON ASSEMBLY
- 8 CUTTING EDGE INTENDED TO BE SHARP, DO NOT BREAK SHARP EDGE
- 9 INSTALL FASTENER FINGER-TIGHT

646.3301
SHOWN EXPLODED

		1	16	601.2834	BOLT	AN3-14A	
		A/R	15	601.2045	RTV, LOCTITE 598		
		18	14	601.2765	SCREW	MS27039-0819	
		3	13	601.1624	LOCKNUT	MS21042L3	
		2	12	601.2763	BOLT	AN3-12A	
		6	11	601.1607	WASHER	NAS1149F0332P	
		18	10	601.1541	LOCKNUT	MS21042L08	
			9		DELETED		
		36	8	601.2764	WASHER	NAS1149FN832P	
		1	7	646.3316	BLADE	3	4
		1	6	646.3315	BLADE	3	4
		1	5	646.3314	BLADE	3	4
		1	4	646.3313	UPPER GUIDE	1	2
		1	3	646.3312	CENTER PLATE	1	2
		1	2	646.3311	RH HALF	1	2
		1	1	646.3310	LH HALF	1	2
				646.3301	UPPER CUTTER ASSY		
		.3301	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
QTY			PARTS LIST				
NEXT ASSY (S)		ORIGINAL DATE (MO-DA-YR)		08-26-08		3030 ENTERPRISE CT., SUITE A	
646.4000		DRAWN BY		CHECKER		VISTA, CA. 92081	
		S. HUFF		P. BRAVO		(760)-724-5300	
		DRAWING APPROVAL		DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE			
		P. BRAVO					
		08-26-08					
		CONTRACT No.					
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°				UPPER CUTTER ASSY	
		SIZE	CAGE CODE	DWG. NO.		REV.	
		B	07MZ6	646.3300		A	
SCALE NONE						SHEET	1 OF 8

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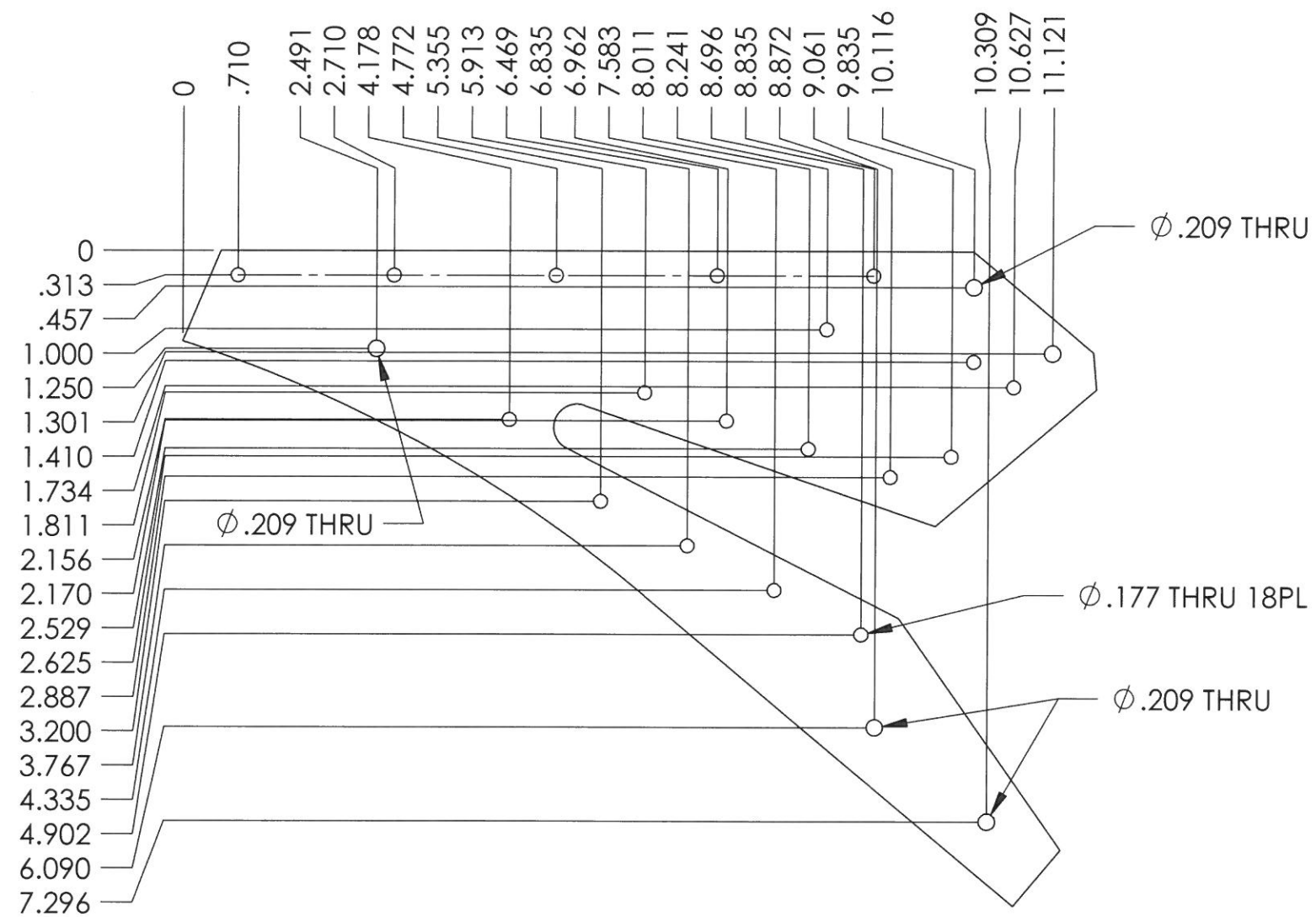
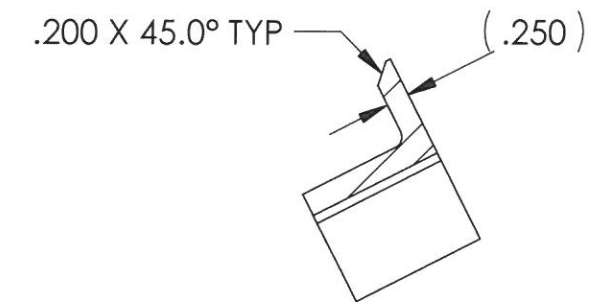
A
B
C
D




646.3310 SHOWN
646.3311 OPPOSITE

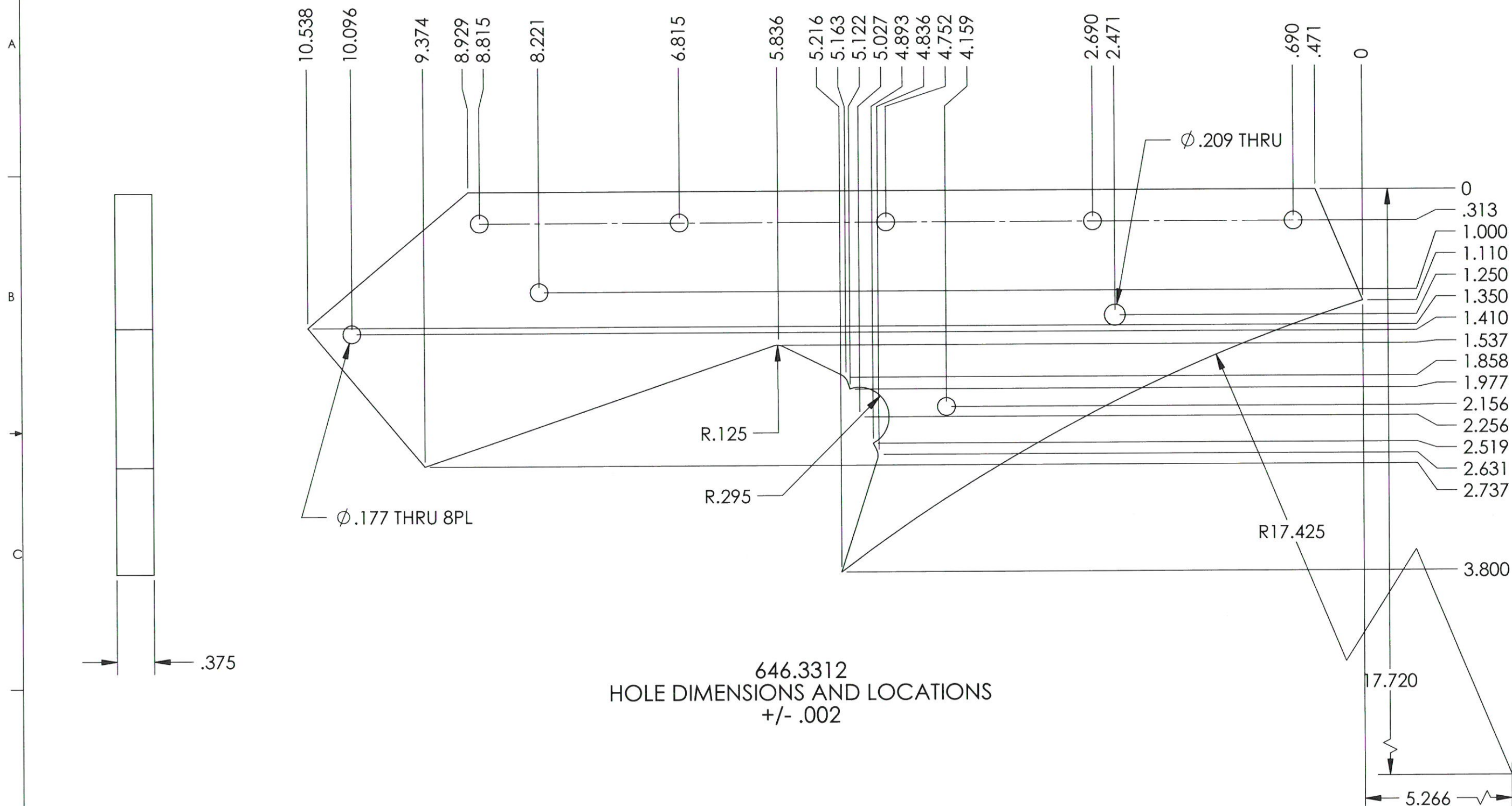
ORIGINAL DATE (MO-DA-YR) 08-26-08		 AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUFF	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO		UPPER CUTTER ASSY			
CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.3300	REV. A
		SCALE: NONE			SHEET 2 OF 8

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SECTION A-A SECTION B-B 

ORIGINAL DATE (MO-DA-YR)	08-26-08	 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY	CHECKER P. HUFF		
DRAWING APPROVAL			
CONTRACT NO.		UPPER CUTTER ASSY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.001 3 PLACE DECIMALS ±.005 ANGLES ± .5°			
SIZE	CAGE CODE	DWG. NO.	REV.
B	07MZ6	646.3300	A
SCALE NONE		SHEET	3 OF 8

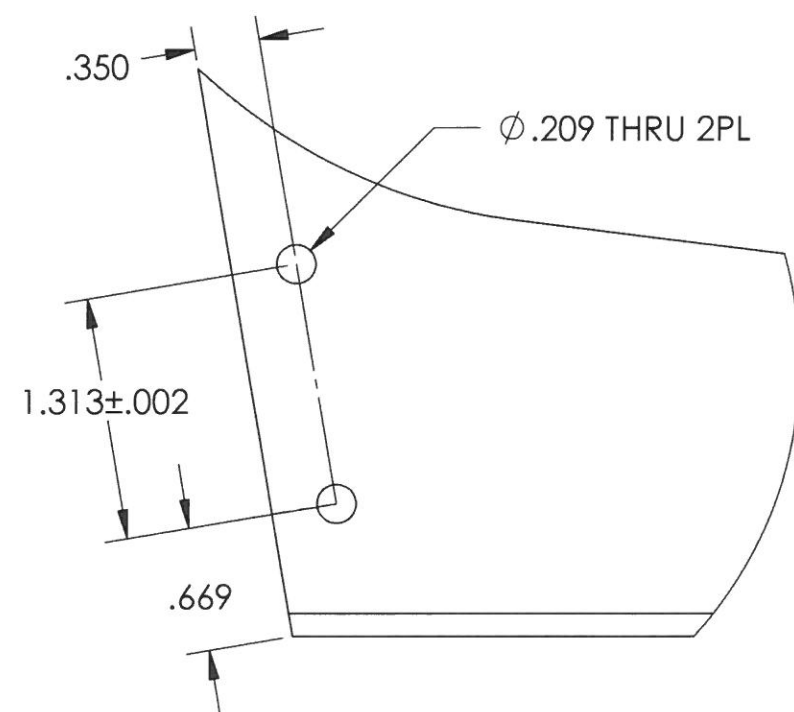
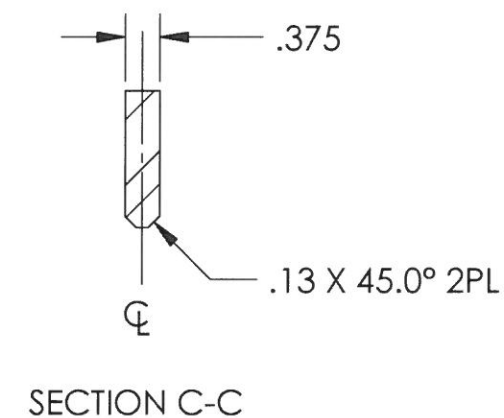
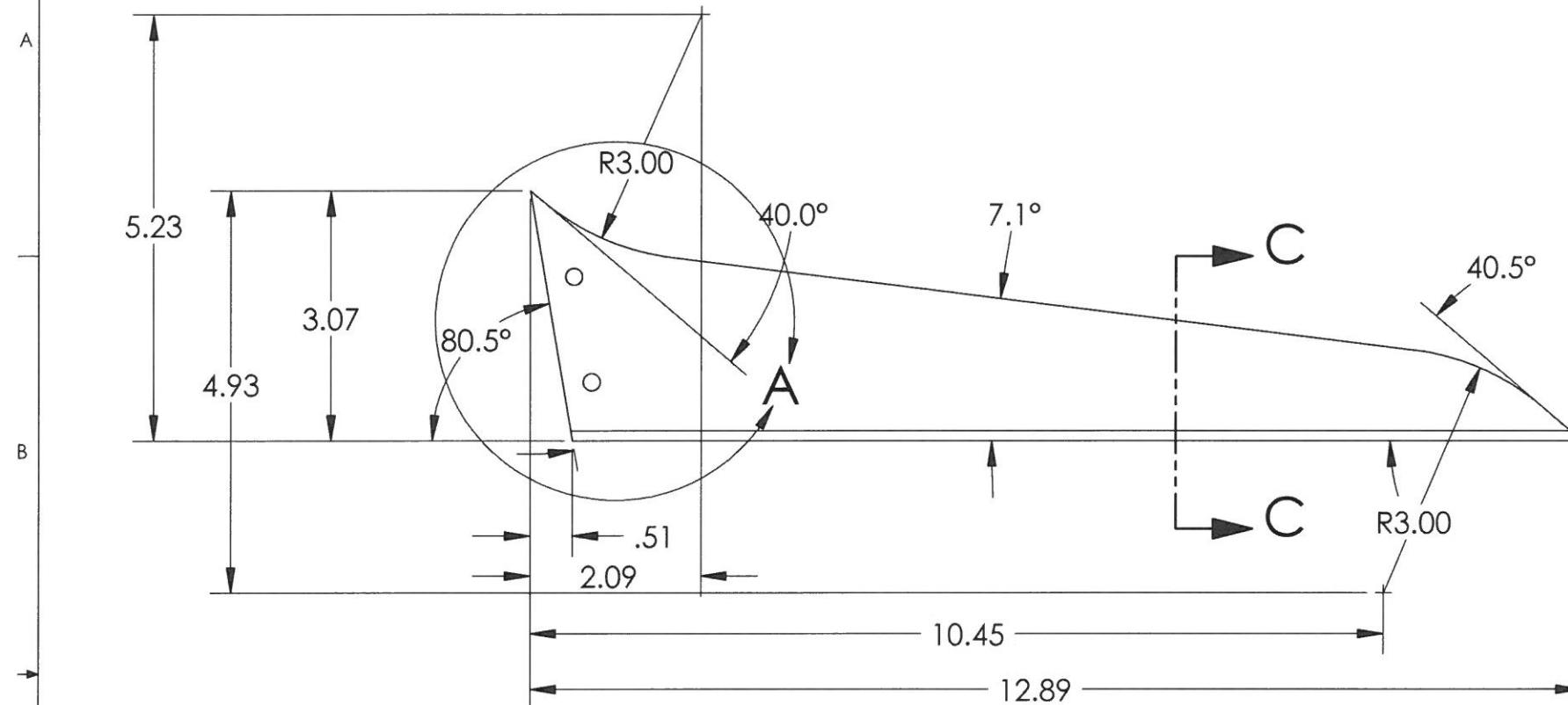
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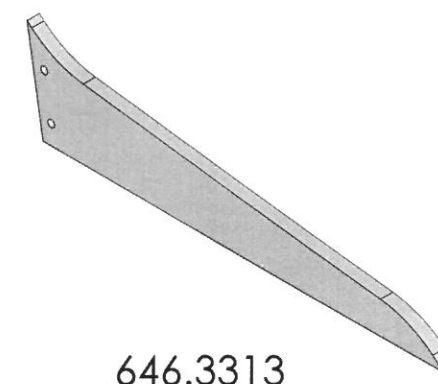
646.3312
HOLE DIMENSIONS AND LOCATIONS
+/- .002


ORIGINAL DATE (MO-DA-YR) 08-26-08		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUFF		CHECKER P. BRAVO	
DRAWING APPROVAL P. BRAVO 08-26-08		APICAL INDUSTRIES, INC. dba DART AEROSPACE	
CONTRACT No.		DART AEROSPACE	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		UPPER CUTTER ASSY	
SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.3300	REV. A
SCALE NONE		SHEET 4 OF 8	

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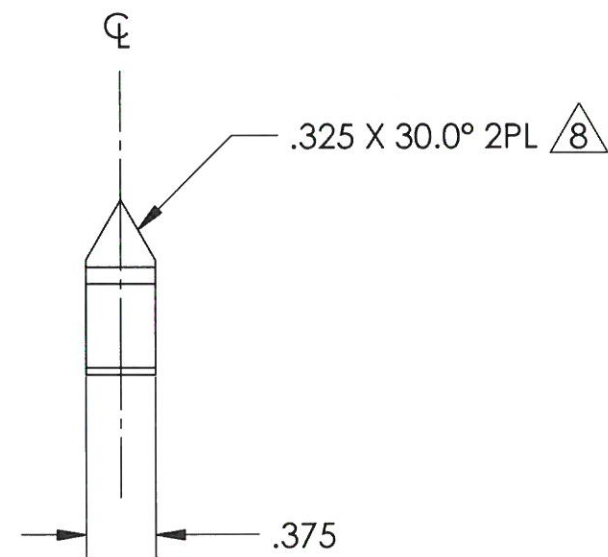
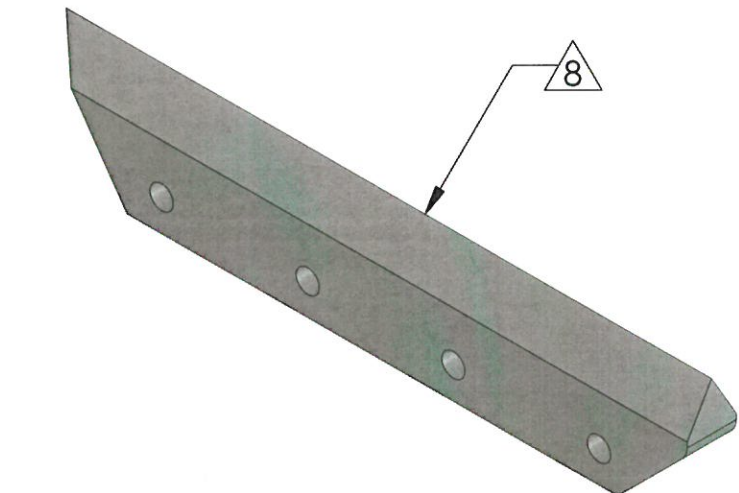
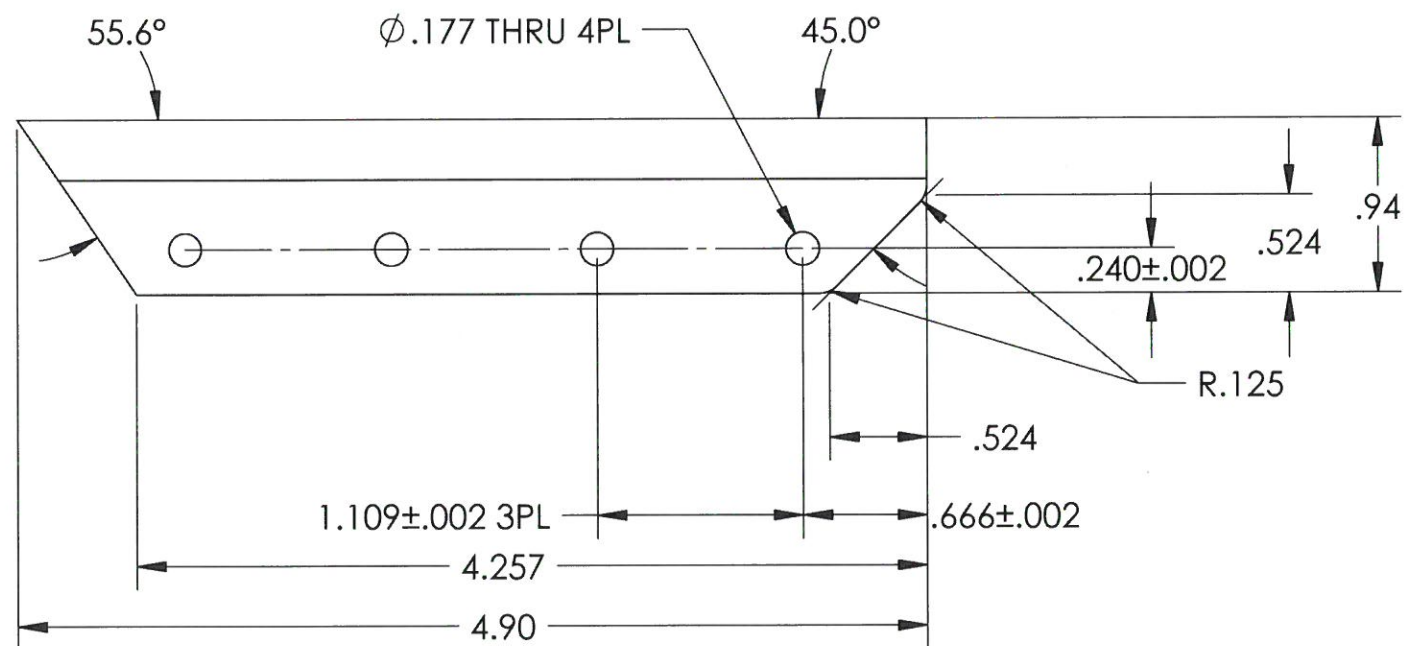


DETAIL A



ORIGINAL DATE (MO-DA-YR) 08-26-08		 DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA, 92081 (760)-724-5300	
DRAWN BY S. HUFF	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 08-26-08		UPPER CUTTER ASSY			
CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.3300	REV. A
		SCALE NONE			SHEET 5 OF 8

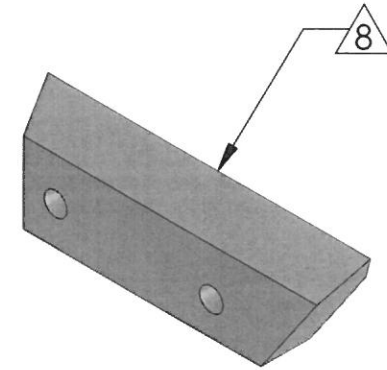
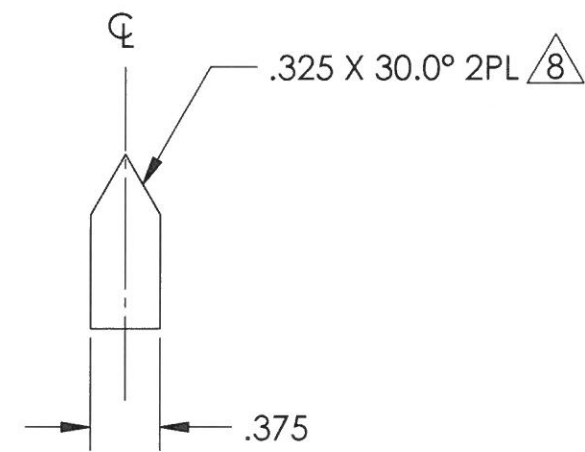
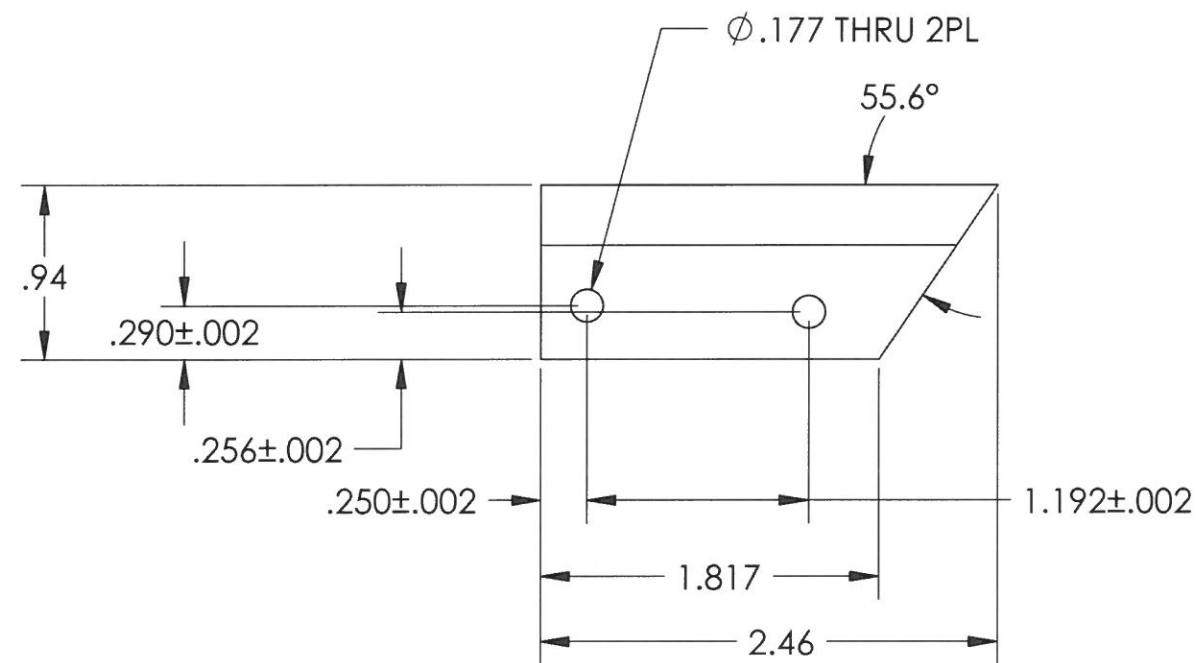
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646.3314

ORIGINAL DATE (MO-DA-YR) 08-26-08		 APICAL INDUSTRIES, INC. dba DART AEROSPACE		3030 ENTERPRISE CT., SUITE A	
DRAWN BY S. HUFF	CHECKER P. BRAVO			VISTA, CA. 92081 (760)-724-5300	
DRAWING APPROVAL P. BRAVO 08-26-08		UPPER CUTTER ASSY			
CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE B	CAGE CODE 07MZ6	DWG. NO. 646.3300	REV. A
		SCALE NONE		SHEET 6 OF 8	

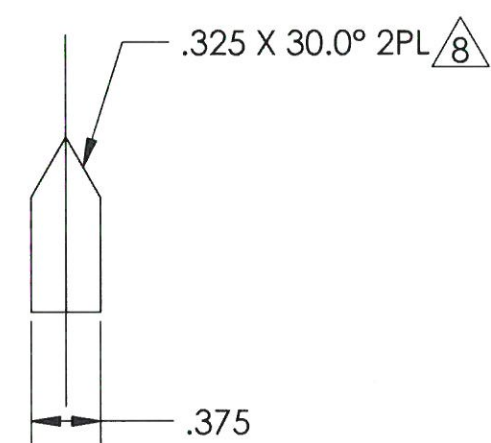
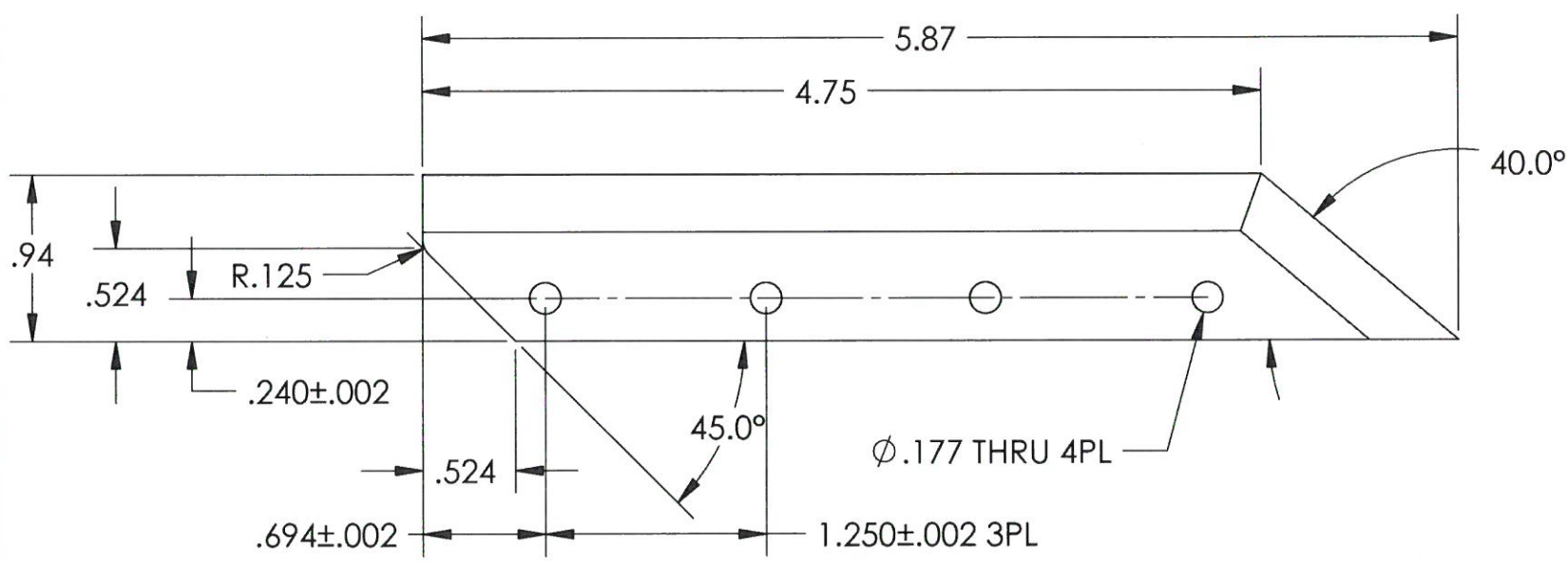
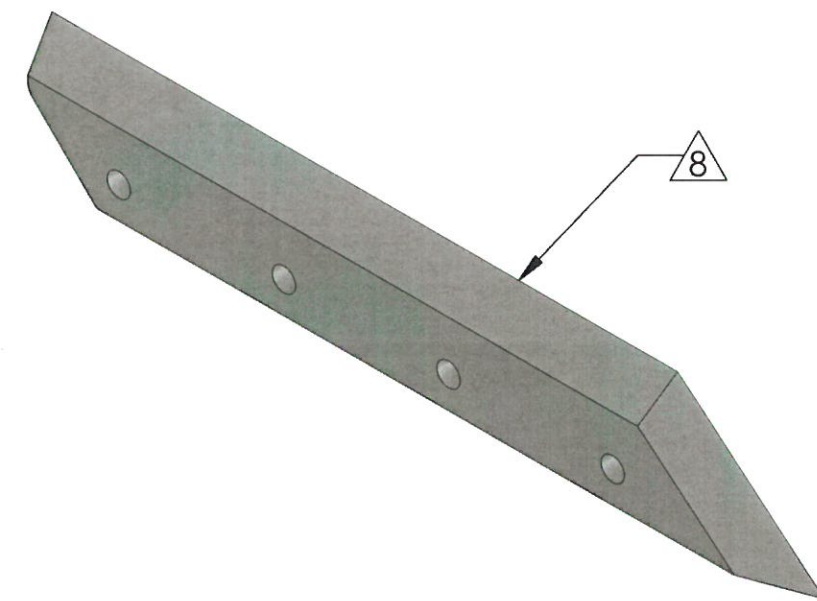
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646.3315

ORIGINAL DATE (MO-DA-YR) 08-26-08		 3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300			
DRAWN BY S. HUFF	CHECKER P. BRAVO				
DRAWING APPROVAL P. BRAVO 08-26-08		UPPER CUTTER ASSY			
CONTRACT No.					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE	CAGE CODE	DWG. NO.	REV.
		B	07MZ6	646.3300	A
		SCALE NONE		SHEET	7 OF 8

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646.3316

ORIGINAL DATE (MO-DA-YR) 08-26-08		DRAWN BY S. HUFF		CHECKER P. BRAVO		DRAWING APPROVAL P. BRAVO 08-26-08		CONTRACT No.		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°	
DART AEROSPACE APICAL INDUSTRIES, INC. dba DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300		UPPER CUTTER ASSY		SIZE B		CAGE CODE 07MZ6		DWG. NO. 646.3300	
SCALE NONE		SHEET 8 OF 8		REV. A							